## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SW/P101151WO	FOR FURTHER see Notification (Form PCT/ISA/	of Transmittal of International Search Report (220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 03/05334	05/12/2003	05/12/2002
Applicant	~	en e
YORKSHIRE CANCER RESEARCH	I	
This International Search Report has be according to Article 18. A copy is being t	en prepared by this International Searching Aut ransmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consist  It is also accompanied b	s of a total of <u>9</u> sheets. y a copy of each prior art document cited in this	s report.
Basis of the report		
a. With regard to the language the	e international search was carried out on the ba nless otherwise indicated under this item.	asis of the international application in the
Authority (Rule 23.1(b)).	was carried out on the basis of a translation of	
was carried out on the basis of the	Ind/or amino acid sequence disclosed in the in the sequence listing: ional application in written form.	nternational application, the international search
	ternational application in computer readable for	rm.
	to this Authority in written form.	
furnished subsequently	to this Authority in computer readble form.	
the statement that the statement application	ubsequently furnished written sequence listing of as filed has been furnished.	
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. X Certain claims were fo	und unsearchable (See Box I).	
3. X Unity of invention is la		
4. With regard to the title,		, , , , , , , , , , , , , , , , , , ,
	submitted by the applicant.	•
x the text has been estable	ished by this Authority to read as follows:	•
CIZ1 REPLICATION PROT	EIN	
•		
5. With regard to the abstract,	•	
the text is approved as s	submitted by the applicant. ished, according to Rule 38.2(b), by this Author he date of mailing of this international search re	rity as it appears in Box III. The applicant may, port, submit comments to this Authority.
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	olicant.	None of the figures.
X as suggested by the app	olicant. ailed to suggest a figure.	None of the figures.

Form PCT/ISA/210 (first sheet) (July 1998)

Although Claims 19, 20 (insofar as in vivo methods are concerned) and 27 directed to a method of treatment or diagnosts of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.  2. **Xiama Nas** 10-12, 13(a), 21-29  Because they relate to parts of the international Application that do not comply with the prescribed requirements to such an entire that no meaningful international Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210  3. **Claims Nas** because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).  Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)  This international Search gauthority found multiple inventions in this international application, as follows:  see additional sheet  1. **As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.**  2. **As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional search fees were timely paid by the applicant, this international Search Report covers only these claims for which fees were paid, specifically claims Nos*  1. **No required additional search fees were timely paid by the applicant, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos*  1. **International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos*  1. **International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos*		
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Although claims 19, 20 (insofar as in vivo methods are concerned) and 27 directed to a method of treatment or diagnosis of the human/animal body, ti search has been carried out and based on the alleged effects of the compound/composition.  2.   Claims Nos.: 10-12,13(a),21-29 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search and scarried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210  3.   Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).  Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)  This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet  1.   As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.  2.   As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  3.   As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:  1-15, 17-29  Remark on Protest  The additional search fees were accompanied by the applicant's protest.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
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# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 19, 20 (insofar as in vivo methods are concerned) and 27 are directed to a method of treatment or diagnosis of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 10-12,13(a),21-29

The application contains two claim 13's. For the purpose of the search these claims have been referred to as claims 13(a) and 13(b) respectively.

Claims 10-12, 13(a) (except for the references to nucleic acids and antibodies) and 21-29 refer to agents without giving a true technical characterisation of said agents. Said claims cover all agents having this characteristic or property, whereas the application provides this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such agents. In the present case, said claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Independent of the above reasoning, said claims also lack clarity (Article 6 PCT). An attempt is made to define the agent by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and those parts of the parts relating to antibodies and nucleic acid molecules which specifically bind to the CIZ1 polypeptide and polynucleotide.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

THIS INVENTION RELATES TO A SCREENING METHOD FOR THE IDENTIFICATION OF AGENTS WHICH MODULATE THE ACTIVITY OF THE CIZ1 DNA REPLICATION PROTEIN AS A TARGET FOR INTERVENTION IN CANCER THERAPY AND INCLUDES AGENTS WHICH MODULATE SAID ACTIVITY. THE INVENTION ALSO RELATES TO THE USE OF THE DNA REPLICATION PROTEIN, AND ITS RNA TRANSCRIPTS IN THE PROGNOSIS AND DIAGNOSIS OF PROLIFERATIVE DISEASE E.G., CANCER.

## INTF "NATIONAL SEARCH REPORT

rnational Application No I/GB 03/05334

A. CLASSIFICATION OF SUBJECT IPC 7 C12N15/09 G01N33/53

C12N15/11 G01N33/566

C12N15/63

C07K14/46

C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBASE, Sequence Search, WPI Data, PAJ

•	ENTS CONSIDERED TO BE RELEVANT	Relevant to daim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to dam No.
P,X	DATABASE UNIPROT EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 1 March 2003 (2003-03-01), THE FANTOM CONSORTIUM & THE RIKEN GENOME EXPLORATION RESEARCH GROUP PHASE I & II TEAM: "LSFR1 protein homolog." XP002285015 Database accession no. Q8BIT2 abstract & "ANALYSIS OF THE MOUSE TRANSCRIPTOME BASED ON FUNCTIONAL ANNOTATION OF 60,770 FULL-LENGTH CDNAS" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 420, no. 6915, 5 December 2002 (2002-12-05), pages 563-573, XP001165660 ISSN: 0028-0836	17,18
P , X	BASED ON FUNCTIONAL ANNOTATION OF 60,770 FULL-LENGTH CDNAS" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 420, no. 6915, 5 December 2002 (2002-12-05), pages 563-573, XP001165660 ISSN: 0028-0836	-,,

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the International filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search  22 June 2004	Date of mailing of the international search report
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Tudor, M

# INTFRNATIONAL SEARCH REPORT

rnational Application No △**I**/GB 03/05334

Category °	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Calegory	Ontaion of document, that management, three depropriate, and the second	
X	DATABASE UNIPROT EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 16 October 2001 (2001-10-16), MITSUI K., ET AL.: "Cip1-interacting zinc finger protein (Nuclear protein NP94)." XP002285016 Database accession no. Q9ULV3 abstract -& MITSUI KAORU ET AL: "Cloning and characterization of a novel p21 Cip1/Waf1-interacting zinc finger protein, Ciz1" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 264, no. 2, 22 October 1999 (1999-10-22), pages 457-464, XP002285057 ISSN: 0006-291X	1-9, 13-15, 17-20
X	DATABASE GENESEQ EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 22 October 2001 (2001-10-22), TANG YT. ET AL: "Human polypeptide SEQ ID NO 2772." XP002285017 Database accession no. AAM39627 abstract & WO 01/53312 A (CHEN RUI HONG; GOODRICH RYLE (US); HYSEQ INC (US); WANG DUNRUI (US);) 26 July 2001 (2001-07-26)	13-15, 17-20
X	example 4; sequence 2772  DATABASE GENESEQ EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 5 February 2002 (2002-02-05), HILLMAN, JL. ET AL: "Human transcription factor TRFX-47." XP002285018 Database accession no. ABB50196 abstract & WO 01/72777 A (INCYTE GENOMICS INC; PATTERSON CHANDRA (US); AZIMZAI YALDA (US); MATH) 4 October 2001 (2001-10-04)	13-15, 17-20
X .	page 191 - page 193; claim 1  DATABASE GENESEQ EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 8 February 2001 (2001-02-08), SHIMKETS RA, LEACH M: "Human ORFX ORF3109 polynucleotide sequence SEQ ID NO:6217." XP002285019 Database accession no. AAC77554 abstract -/	13-15, 17-20
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### INTERNATIONAL SEARCH REPORT

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ategory °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
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	<pre>&amp; WO 00/58473 A (CURAGEN CORP ; LEACH MARTIN (US); SHIMKETS RICHARD A (US)) 5 October 2000 (2000-10-05) page 5401 - page 5402; claim 5; sequence</pre>		
	6217		
(	WO 01/70979 A (MILLENNIUM PREDICTIVE MEDICINE) 27 September 2001 (2001-09-27) sequence 19627		13-15, 17-20
	DATABASE UNIPROT EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 1 March 2002 (2002-03-01),		13-15, 17,18
	STRAUSBERG R.: "Hypothetical protein (CIZ1)." XP002285020 Database accession no. Q8VEH2 abstract		
(	DATABASE EMBL EBI, HINXTON, CAMBRIDGESHIRE, U.K.; 10 December 2001 (2001-12-10), STRAUSBERG R.L. ET AL: "Mus musculus CDKN1A interacting zinc finger protein 1, mRNA (cDNA clone MGC:27988 IMAGE:3597692), complete cds." XP002285021 Database accession no. BC018483 abstract		13-15, 17,18
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A	26-07-2001	US		-	-2003	
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